LISTING OF THE CLAIMS

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Please amend the claims as follows.

1. (Currently Amended) A machine tool damping apparatus comprising:

a first element adapted to be coupled with a second element, the first element comprising a structured surface and the second element comprising a second surface, wherein the second surface comprises a receiving surface that is substantially uniform and wherein the structured surface comprises a plurality of depressions wherein the depressions are formed by machining and wherein the depressions are substantially hemispherical.

2. (Canceled).

3. (Canceled)

4. (Previously Presented) The apparatus of claim 1, wherein the structured surface is adapted to be coupled with the receiving surface.

5. (Canceled)

6. (Canceled).

7. (Canceled)

8. (Canceled).

9. (Previously Presented) The apparatus of claim 1, wherein the structured surface further comprises a projection.

10. (Previously Presented) The apparatus of claim 1, wherein a viscous fluid is disposed on the structured surface.

11. (Currently Amended) ~~An~~ A machine tool apparatus comprising:

a first element adapted to be coupled with a second element, the first element comprising a first surface and the second element comprising a collet; and

means for damping, the damping means disposed on the first surface of the first element wherein the second element comprises a receiving surface for the collet, wherein the first surface is adapted to be coupled with the receiving surface and wherein the first surface directly contacts the receiving surface and wherein the damping means comprises a plurality of depressions disposed in the first surface and wherein the depressions are formed by machining.

12. (Canceled).

13. (Canceled)

14. (Currently Amended) The apparatus of claim 11 ~~13~~, wherein the first surface is disposed adjacent to the receiving surface.

15. (Canceled).

16. (Previously Presented) The apparatus of claim 11, wherein the depressions are substantially hemispherical.

17. (Currently Amended) A method of damping vibrations in a machine tool apparatus comprising a first element and a second element, wherein said method comprises:
adapting a first element to be coupled with a second element, the first element comprising a structured surface and the second element comprising a collet having a second surface, the second surface comprising a receiving surface, and the structured surface comprising a plurality of depressions and wherein the depressions are formed by machining and wherein the structured surface directly contacts the receiving surface.

18. (Previously Presented) The method of claim 17, wherein the depressions are substantially hemispherical.

19. (Previously Presented) The method of claim 17, wherein the first surface is disposed adjacent to the receiving surface.

20. (Previously Presented) The method of claim 17, wherein the first surface is adapted to be coupled with the receiving surface.

21. (Previously Presented) The method of claim 17, further comprising disposing a viscous liquid on the structured surface.

22. (Previously Presented) The method of claim 17, wherein the structured surface further comprises a projection.

23. (Previously Presented) The method of claim 17, wherein the structured surface is engaged with the receiving surface.

24. (Previously Presented) The method of claim 17, wherein the depressions are arranged in a non-uniform pattern.

25. (Previously Presented) The apparatus of claim 1, wherein the depressions are arranged in a non-uniform pattern.

26. (Currently Amended) A damping apparatus comprising:

a substantially cylindrical first element adapted to be coupled with a substantially cylindrical second element, the first element comprising a structured surface and the second element comprising a second surface, wherein the second surface comprises a receiving surface and wherein the structured surface comprises a plurality of depressions wherein the depressions

are formed by machining and wherein the structured surface directly contacts the receiving surface.

27. (Previously Presented) The apparatus of claim 1, wherein the structured surface directly contacts the receiving surface.

28. (Previously Presented) The apparatus of claim 11, wherein the damping means is not a viscous fluid.

29. (Previously Presented) The apparatus of claim 26, wherein a viscous fluid is not disposed on the structured surface.

30. (New) A machine tool apparatus comprising:

a first element comprising a first end, a second end, and a first surface,

wherein the first surface, having a conical shape, is disposed proximate to the first end, and wherein the first surface comprises a structured surface, the structured surface comprising a plurality of depressions, and

wherein the second end is adapted to contact a machine tool;

a second element comprising a distal end and a proximate end,

wherein the proximate end comprises a conical receptacle, the conical receptacle being defined by a second surface and a receiving end;

wherein the first element is coupled with the second element such that the first end contacts the receiving end of the second element such that the first surface contacts the second surface;

wherein the first surface comprises a corresponding size, shape, and geometry as the second surface such that a substantially secure connection is created when the first element is coupled with the second element;

wherein the structured surface directly contacts the second surface; and

wherein the plurality of depressions provides a means for damping.